LCD Intelligent Alarm System

User's Manual

Please read this manual carefully before you operate

Table Of Contents

What's included

1. Main Unit	1PC	2. Key	2PCS
3. Remote Controller	2PCS	4. Antenna	1PC
5. Power Lead	1PC	6. Double-end Telephone Line	1PC
7. 2.2KΩLine-end Resistance	8PCS	8. Screw	2PCS
9. Selftapping Screw	3PCS	10.Maintenance Card	1PC
11.Users Manual	1PC	12.Plastic Bolt	3PCS

1.System Introduction

This system is a Telephone Networking Alarm Console with LED&LCD display, there are 16 zones (8 wireless zones and 8 wired zones). It works with remote controllers (up to 8 remote controllers), various wireless (wired) detectors and wireless (wired) sirens. It can store 5 pre-set telephone numbers (fixed/mobile telephone number and pager number). Once alarm happens, the alarm console will activate on-site siren immediately; and dial pre-set telephone numbers at the same time It is widely used in residence, marketplace, finance system and enterprise.

2.Main Functions:

2.1 It is easy to operate with 4*4 keyboard and lattice LCD display.

2.2 Voice pre-recorded. It guides to operate by sound and correctly reports alarm information when alarming.

2.3 There are 8-wired zones and 8 wireless zones altogether, and they share with the zone number.

2.4 8 sub zones can be programmed independently. And the zone list can be set freely in each sub zone, 8 remote controllers and 8 user's codes can separately program for 8 sub zones to ARM/DISARM independently.

2.5 Code classification, 1 installer code, 1 master code, and 8 common user 's codes. Add 1 at the end of master code/ common user's code, and then it will become duress code.

2.6 Support to ADEMCO CONTACT ID communication protocol

2.7 5 groups of telephone numbers (mobile and pager number) can be set. Dialing type (tone or pulse) and appointed communication zone can be programmed. Arm/disarm, whether to report the information of system state can be set freely.

2.8 DTMF (double-tone multi frequency) and pulse dialing mode are available.

2.9 It rushes to report alarm information when alarming (the line should be correctly connected)

2.10 Telephone line cut off or short-circuit will send an alarm. (Indicate sound or siren are optional, this function also can be opened/closed).

2.11 Dial the telephone number, which connected with main unit to arm/disarm and start alarm on the spot function remotely through telephone or mobile phone.

2.12 Automatically learn code between wireless PIR detector, remote controller and

Main unit (each zone can be learned up to 3 detectors, so it can be learned up to 24 detectors and 8 remote controllers altogether.)

2.13 Wired zone respond speed is 50ms-750ms, and the circuit types (Normal Open, Normal Close and line-end resistance) can be set freely to connect with all kinds of wired detector.

2.14 Two timers can be set to Arm/Disarm different zones independently.

2.15 Alarm delay time (00-99 seconds) and Arm delay time (00-99 seconds) can be set for appointed zones.

2.16 It has completed self-check function, Main unit/detector disassembly, AC power cut, backup battery lower of main unit and detector will activate alarming.

2.17 Linkage with wired/wireless Siren

2.18 Latest 30 pieces of alarm record (Alarm information, Month/Day/hour/minute) can be recorded, and the user and time of the last arm time and the last disarm time can be recorded. If the records are over 30 pieces, then it will delete the preceding ones automatically. User cannot change/delete the records.

2.19 Main unit and wireless PIR detector make communication in 26 hours to check if there are communication malfunctions. If there are malfunctions, the main unit will alert corresponding zone within 26 hours. (This function can be opened/closed)

2.20 Wireless detector reports to main unit for on/off. The report will be kept in record.

2.21 Both AC220V and 12V/7Ah rechargeable battery supply power, usually, it charges the backup battery automatically, and they switch automatically. The backup battery can work for 24 hours or more in standby time. And it reports when power lower. To avoid battery damaged, it adopts limited current discharge protection circuit.

3. System Diagram

4. System Installation

Thank you for choosing our products! As you known, any kinds of products, to assure its credibility and fully display all its functions, it should be installed and used correctly. So we recommend installing by professional personnel. Otherwise, we have no responsibility for any malfunctions caused by installing or using incorrectly. Please contact with our local agency if you need our professional personnel!

4.1 Install preparation

1. Firstly, make a scheme of all defense zones according to user¡s needs, and choose suitable kinds of detectors.

2. Fix the setup places of all fittings, like alarm host ,detectors and sirens.

3. Draw a setup map marking the types and specification of detectors and cable conductors in all zones, and marking the different usages of all kinds of color lines. Don¡t use the same color cables in different zones of the same system. (The scheme and the map should be filed for maintenance afterwards)

Note: Considering the factors as follows when making defense scheme and drawing the map.

*After making sure the credibility of detector, it should be fixed in hide places, and the alarm host should be fixed in a place where is easy to reach but not easy to be found, and there should have sockets nearby, it also should be near to telephone line and within defense zone of detector. Siren or trumpet should be set in the best place. Emergency button should be set in the most convenience place.

*When installing wired detector, the cable should be fixed in hide place, like line groove in ceiling. Don¡t use the same color cables in the different zones of the same system.

*There should be no big mental or other electrical applicants which can produce interferes (like television ,air-condition,computer and micro-oven and so on) near to the install place of alarm host and other wireless communication equipments. Otherwise, it will affect its normal wireless communication function.

*Considering all factors, which could cause interferes when adopting wireless detectors and wireless siren. Usually, in open area, the distance between the above detector, siren and alarm host can reach to 400m. The alarm host should be set indoors. Otherwise, in the course of transmitting, wireless signal may be absorbed or weaken by all equipment material indoors. Moreover, other signals of wireless equipment may make interferes to this transmit signal. Therefore, the transmitting distance is less than 400m when used indoors.

4. How to connect power lead with main unit:
    After opening the out cover of main unit, you will see three labels near to transformer, that are as following:
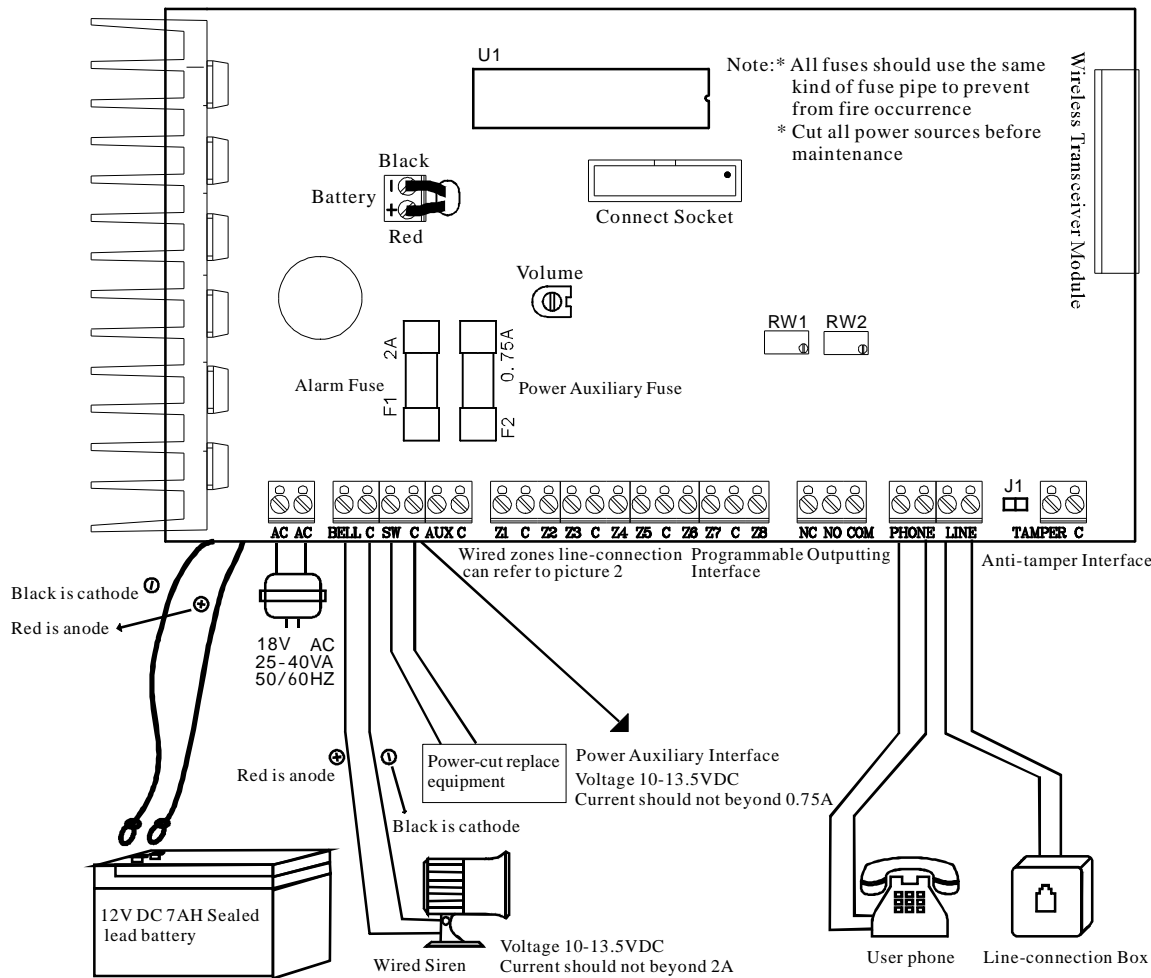   **⊣⊩:Connect it with yellow line of power lead.**
    N: Connect it with brown line of power lead.
    L: Connect it with blue line of power lead.

4.2 Start to install

(Connection picture 1)

U1

Note:* All fuses should use the same kind of fuse pipe to prevent from fire occurrence
* Cut all power sources before maintenance

Wireless Transceiver Module

Black
Battery
Red

Connect Socket

Volume

RW1 RW2

2A
0.75A

Alarm Fuse
F1
F2
Power Auxiliary Fuse

J1

AC AC BELL C SW C AUX C   Z1 C Z2 Z3 C Z4 Z5 C Z6 Z7 C Z8   NC NO COM PHONE LINE   TAMPER C

Wired zones line-connection can refer to picture 2

Programmable Outputting Interface

Anti-tamper Interface

Black is cathode
Red is anode

18V AC
25-40VA
50/60HZ

Red is anode

Power-cut replace equipment

Black is cathode

Power Auxiliary Interface
Voltage 10-13.5VDC
Current should not beyond 0.75A

12V DC 7AH Sealed lead battery

Wired Siren

Voltage 10-13.5VDC
Current should not beyond 2A

User phone   Line-connection Box

4.2.1 Machine case installing
*Firstly, take out alarm host form packing box, and open the cap with key.
*Take out circuit board from machine case to avoid damaging it when fixing machine case.
*Make a Pre-mode hole
*Mark the install place of nail on the wall where the alarm host will be fixed.
*Put the cable through pre-mode hole to fix machine case on the wall.
*Return the circuit board and fix it firmly.

Note: The nail mounting the alarm console should be fasten and can bear three times of weight of alarm console at least.

4.2.2 Ground connection
The alarm host should be connected with ground in order to make anti-lightning strike circuit work normally.

4.2.3 Control line connection of alarm host
When connecting, the line should be strictly connected according to the

different uses of different color cables. Then spread the line according to the setup map, and lead the cable to the place where the alarm host will be fixed. Then connect the line end with the alarm host. When connecting, the cable end should be bared, and the length of bared should be equal to the connect port where will be inserted. It will cause poor contact if the line inserted is too short; and it will cause short circuit if the line inserted is too long. If more than two lines should be connected with the same end, then the bared line should be twisted firmly, then insert them into the hole. After that, screw the screw cap firmly to bear pulling strength.

4.2.4 AC connection
The AC is a transformer with 18V, 25-40 VA 500V60Hz. Connect its secondary with the AC end of alarm host. Don¡t connect its primary with the socket controlled by switch. Don¡t connect it with the circuit with GFI. After connecting all lines, power it on.

Note: The alarm host will indicate if the AC line cut off for 8 minutes. When there are something wrong with program system, the alarm host will report that the AC is cut off. And the alarm host also will report that it recovers after recovering for 4 minutes

4.2.5 Backup battery connection
To make sure the alarm host will work normally in case the AC is cut off, the alarm host should be connected with storage battery as picture 1. Connecting the red line with the anode, and connecting the black line with the cathode. It will damage the battery if they are wrongly connected ,and it uses 12V 7Ah sealed storage battery. Don¡t use non-recharged battery or non-sealed storage battery. We suggest changing the battery every 3 or 5 years.

Note: The alarm host will alarm if the voltage is lower than 10.5V. Moreover, it will indicate if there are something wrong with program system, and when voltage is lower than 8.5V, it will cut off the power supply to protect the battery. Don¡t connect the battery before finishing all lines connection.

4.2.6 Auxiliary to connect with power.
SW and C end are interfaces, which can be cut off. It provides equipments, which need to recover the cut off state after alarming, with +12VDC. The representative equipments include glass ¨broken sensor and smoke detector. AUX and C end are interfaces, which cannot be cut off. It can provide wired fitting with +12V/500mA DC power. SW&D C end and AUX&C end are protected by fast thawing fuse (0.75A,3AG)

4.2.7 Siren outputting connection
Bell&C is the siren outputting interface. It provides stable 12V DC power when alarming. Fast thawing fuse F1(2A, 3AG) protects the interface circuit. When the current over 2A,then the fuse F1 will melt to cut off the connection between alarm host and signal. Note the polarity before connecting. The anode is connected with the Bell end, and the cathode is connected with the C end as picture1. Note: if the fuse melts, please cut all alarm host power.

After clearing all obstructions, change the fuse, and then power it on. Don¡t
change it with large capacity fuse.
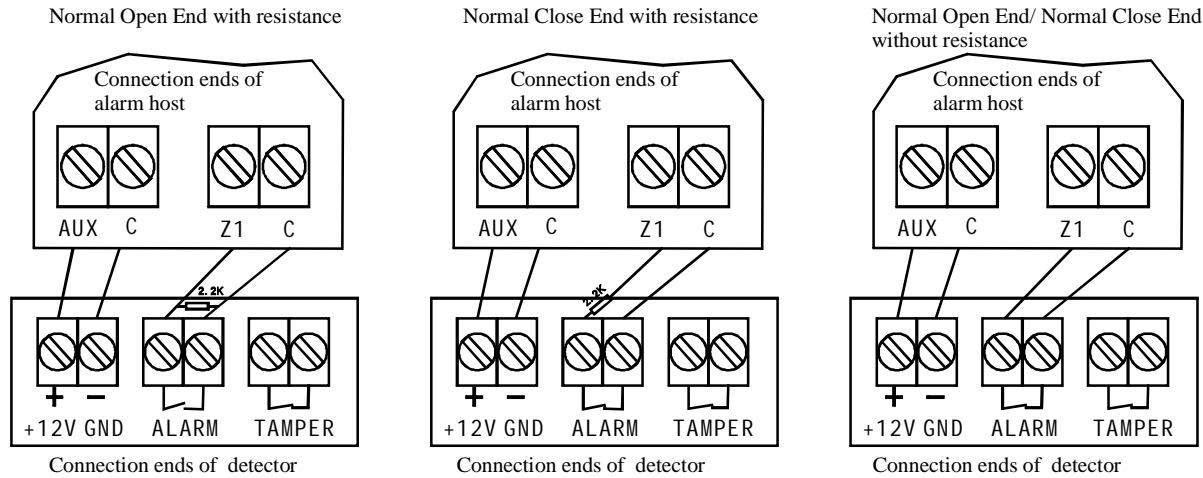
4.2.8 Program alliance output connection

NC.NO.COM are program alliance outputting interfaces, they can be
programmed to control the switch of some electrical equipments when there
are alarms in some zones . NC is normal close end. And NO is normal open
end, COM is common end. their interfaces can be connected with 1A120V AC/24V
DC. If the power of being controlled equipments over interface loads, the
current condenser capability should be enlarged to avoid damaging the control
main board.

4.2.9 wired zones connection

Z1-Z8&C have 8 interfaces connecting with line in wired zones. In zone circuit,
Z1-Z8 end is anode, C end is cathode, so when connecting, please pay attention to
the polarity of detector alarm output interface, So as not to damage other parts
of apparatus. But there is no need to distinguish the polarities when fittings
are hand-pressing switch or foot-trampling switch.

Every zone circuit can be programmed singly to different circuit types, like
¡normal close¡.¡normal open¡ or ¡line end resistance¡.If it is programmed to
be¡normal close¡ or ¡normal open¡, the detector¡s alarm outputting interface
can be connected directly with the both ends of zone circuit; If it is programmed
to be ¡line end resistance¡, the correspondent zone circuit end should be
connected with $2.2K\Omega$ resistance(other zone circuits unused for the moment
also should be connected). Connection principles: normal open detector should
be connected parallelly with 2.2K resistance; normal close detector should be
concatenated with 2.2K resistance (and the resistance should be as near to detector
as possible). In order to avoid zone circuit lines damaged(be cut off or short circuit),
you had better program corresponding zone circuit to be ¡line end resistance¡. If both
resistance down-lead and out-line are connected with the same interface. They should
be twisted and screwed firmly, then inserted into the interface, and screw the nail firmly
If resistance down-lead is wire-wrapped and connected with out-lines, it should be
soldered after wire-wrapped connection. Moreover, the parts of resistance down-lead
should be as short as possible to avoid short circuit by touching with other
metals after twisted.When the detector need alarm host to provide power, the
anode and cathode of the detector¡s power input interface should be separately
connected with SW and C interfaces or AUX and C interfaces.

Picture 2 . Wired zone connection diagram

Normal Open End with resistance   Normal Close End with resistance   Normal Open End/ Normal Close End without resistance

4.2.10 Telephone line connection

PHONE is the interface of telephone incoming line. LINE is extension
interface. When alarming, in order to make alarm host reporting the alarm
information to the manage center and user ,LINE interfaces should be
connected with telephone incoming line. Extension and other
telecommunication equipments should be connected with PHONE interface.
But don¡t oppositely connect with incoming line. They should be connected as
picture 1 .

4.2.11 Anti-tamper line connection

TAMPER&C is the anti-tamper zone interface. It can be set two switches on
the case. One is to avoid opening the cap illegally; the other one is to avoid
moving or dissembling the alarm host.The install steps of anti-tamper switch
1.Adjust the anti-tamper switch in the right-under corner of case. As to the
switch used to prevent alarm host dissembling, its short-circuit end should be
put through the small hole under board of case. As to the switch used to
prevent cap opening, short-circuit end should be put to outer case.
2.Concatenate both anti-tamper switches, then connect the line end with
TAMPER&C interface.

4.3 System Debugging

Firstly, check if all lines are correctly connected, next, connect with battery, and
cover the case cap. Then connect with AC power to program. Lastly, test system
to check if all detector fittings can work normally and can communicate
normally with alarm host or if the alarm host can correctly perform all alarm
functions.Then the system installation is finished.

5. Program Guide

5.1Program

1). Program mode

[SET] + [CODE] + [OK] + [Program Directive] + [OK] +
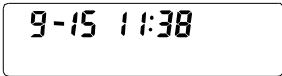
[Directive Index] + [OK] + [Reset]

Note: [SET] + [CODE] + [OK]is used to enter program state.

[SET] + [Installer¡s Code] + [OK]is used to enter installer program state.

[SET] + [Master¡s Code] + [OK] is used to enter users program state.

2). The system can enter program state only in disarm state and can not receive

any alarm signals (including low power supplied of main unit).

3). In program state, it can¡t receive any alarm signals.

4). Press ¡Reset¡ key can erase the latest inputs. Repeatedly press ¡Reset¡ key to

return to the last menu.

5). If there are not any operations within 60 seconds in program state, the system

will exit automatically.

6). Press ¡Reset¡key to scroll wanted program, or press corresponding program

indicative directly.

7). In program state, the system can be programmed continuously.

8). In program state, if you desire to change one Program Directive to the other

one, you should press ¡Reset¡ key ,then enter wanted directive.

5.2 Program instruction

Enter program state

Panel is in standby state (or repeatedly press ¡Reset¡ key to set panel in standby

state). Press [SET] key, the panel will indicate with ¡Please Enter Code¡. LCD display

will show as picture 3. You are allowed to enter Installer Code or Master Code. Then

press [OK] key. ¡Bi¡Bi¡¡means setup correctly, and enter program state. LCD

display show as picture 4. If the code you entered is incorrect, it will indicate with

¡The code is incorrect, please re-enter¡. LCD display will show as picture 3. If wrong

code is entered three times continuously, the panel will occur on-site alarm and keyboard

will be locked for one minute automatically.

```
9-15 11:38
```
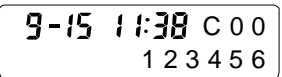Picture 3

```
9-15 11:38C
```
Picture 4

Directive 00: Set/modify installer code

In installer program state, Press[00] + [OK] . LCD display will show as picture 5.

Enter[new code 6 digits]   + [new code 6 digits]   + [OK]. ¡Bi¡Bi¡¡means setup

correctly. The LCD display will show as picture 6. Press ¡Reset¡key for more

programs. For instance, if you want to change installer code to be ¡123456¡.

Please press [00][+] [OK] [+[123456][+] [123456][+] [OK]
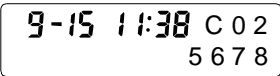
Installer Code default is ¡000000¡

.9.

```
9-15 11:38 C00
        000000
```
Picture 5

```
9-15 11:38 C00
        123456
```
Picture 6

Directive 01-09: Set/modify user¡s code/master code

In installer or master program state:

Press[01]+[OK]+[users code 4 digits]+[users code 4 digits]+[OK] to set the 1st user code

Press[02]+[OK]+[users code 4 digits]+[users code 4 digits]+[OK] to set the 2nd user code

Press[03]+[OK]+[users code 4 digits]+[users code 4 digits]+[OK] to set the 3rd maser code

Press[04]+[OK]+[users code 4 digits]+[users code 4 digits]+[OK] to set the 4th user code

Press[05]+[OK]+[users code 4 digits]+[users code 4 digits]+[OK] to set the 5th user code

Press[06]+[OK]+[users code 4 digits]+[users code 4 digits]+[OK] to set the 6th user code

Press[07]+[OK]+[users code 4 digits]+[users code 4 digits]+[OK] to set the 7th user code

Press[08]+[OK]+[users code 4 digits]+[users code 4 digits]+[OK] to set the 8th user code

Press[09]+[OK]+[master code 4 digits]+[master code 4 digits]+ [OK] to set master code

For instance, set the new code ¡5678¡ to be the second user code.

Enter installer or master program state:

Press [02]+[OK]+[5678]+[5678]+[OK]

The LCD display will show as below.

```
9-15 11:38 C02
        5678
```
Picture 7

Note: 1: User¡s code can not set to be the same, and also can not be the same as other

duress code.

2: Press ¡#¡ after directive to delete user code

For instance, you want to delete the 8th user code

In installer or master program state, Press [08]+[OK] +[#]+[OK]

3: 1-8 user's codes and 1-8 remote controllers are defined to used by 1-8 users,

and different users can operate corresponding zone independently.

1234 is master's code and there is no user's code by default.

Directive 10-14: Set telephone numbers

In installer program state

Press [10]+[OK]+[Phone NO.]+[OK]to set the 1st stored phone number

Press [11]+[OK]+[Phone NO.]+[OK]to set the 2nd stored phone number

Press [12]+[OK]+[Phone NO.]+[OK]to set the 3rd stored phone number

Press [13]+[OK]+[Phone NO.]+[OK]to set the 4th stored phone number

Press [14]+[OK]+[Phone NO.]+[OK]to set the 5th stored phone number

Press a ¡*¡ for 3 seconds to pause dialing. It is used for extension number and

semi-pager station. For instance, stored phone number 2532182*804. It means dial

2532182 first, and stop for 3 seconds, then dial 804.

.10.

2.Press ¡#¡ to delete the appointed stored number. For instance, only press
[11]+[OK] +[#] +[OK] to delete the second phone number.

3.Each stored phone (including *) should not beyond 20 digits.

4.For wrong stored phone numbers, they can be reentered directly. Or delete the wrong
ones, and then enter the right number. For instance, to set the second phone number
2532182, and the extension number is 804.

In installer program state
Press[11]+[OK]+[2532182*804]+[OK]
LCD display will show as below

```
9-15 11:38 C11
  2532182*804
```
Picture 8

No stored phone numbers by default
Directive 15-19: Set zone list to dial corresponding telephone number when alarming
How to set self-test report function

In installer program state

Press[15]+[OK]+[appointed zone No.]+[OK]to set appointed zones to dial the 1st stored phone number.
Press[16]+[OK]+[appointed zone No.]+[OK]to set appointed zones to dial the 2nd stored phone number
Press[17]+[OK]+[appointed zone No.]+[OK]to set appointed zones to dial the 3rd stored phone number
Press[18]+[OK]+[appointed zone No.]+[OK]to set appointed zones to dial the 4th stored phone number
Press[19]+[OK]+[appointed zone No.]+[OK]to set appointed zones to dial the 5th stored phone number

Note: The alarm console also can inform for Arm/Disarm and malfunction inspection. Code 9 is for
Arm/Disarm. Code 10 is for malfunction inspection. (Malfunction inspection includes backup power lower
of main unit/detector, AC power cut off). Enter [SET 0]for 10. It will show on LCD. For instance, you want to
set zone 1, 3, 5, 7 to dial the first stored phone number when there are alarm occur. you can set as follows:

In installer program state
Press[15]+[OK]+[1, 3, 5, 7]+[OK]
LCD display will show as below

```
9-15 11:38 C15
         1357
```
Picture 9

You want to set 2, 4, 6, 8 zones. when those zones occurs alarm or
Armed/Disarmed and panel malfunction inspection report, it will dial the second
stored phone number automatically.
In installer program state
Press[16]+[OK]+[2, 4, 6, 8, 9, SET 0]+[OK]
LCD display will show as below

```
9-15 11:38 C16
    24689A
```
Picture 10

In Ex-factory state, all zones dial all phone numbers
except for Arm/Disarm and malfunction inspection.

Directive 20: Set dialing mode
In installer program state, Press[20]+[OK]+[0 or 1]+[OK], 0 for tone, 1 for pulse.
Tone is set by default

Directive 21: Set telephone communication protocol
In installer program state Press[21]+[OK]+[x x x x x]+[OK], x= (0, 1), 0 for audio
alarm, 1 for CONTACT ID protocol alarm. x x x x x is protocols for 5 stored phone
numbers.
For instance, the first and the second stored number for CONTACT ID
protocol alarm, the third, forth and fifth stored number for audio alarm.In installer
program state
Press[21]+[OK]+[1 1 0 0 0]+[OK]
LCD display will show as below

```
9-15 11:38 C21
        11000
```
Picture 11

All stored phone numbers are set to be audio alarm by default

Directive 22: Set dialing times
In installer program state,
Press[22]+[OK] +[x]+[OK] , x= (1-9)
Note: The dialing times is for alarm phone which wasn¡t received
successfully
In Ex-factory state, it has been set to be 5 times.

Directive 23: Set ringing times
In installer program state
Press[23]+[OK]+[x x]+[OK], x x= (05-15)
Note: alarm panel receives a remote call, when the ringing times arrive, the panel will
enter program state , then you can set remotely.
In Ex-factory state, it has been set to be 8 times.

Directive 24: Set ADEMCO accounts
In installer program state,
Press[24]+[OK]+[Account 4 digits]+[OK]
Note: When networking with ADEMCO center, the code should be 4 bits (0000-9999)

Directive 25: Set KS 6+2 Accounts
In installer program state,
Press[25]+[OK]+[code 6 digits]+[OK]
Note: When networking with KS 6+2 center, the code should be 6 bits (this function
have not opened at the moment.

Directive 26: Set wireless siren

In installer program state,

press[26]+[OK]+[wireless siren code 8 digits]+[OK]

Note: The 8 digits siren code is marked at the back of siren if you want to erase siren code, in installer program state,

Press [26]+[OK]+[#]+[OK]

No wireless siren code by default

Directive 27: Open/Close phone line -cutting report function

In installer program state,

Press[27]+[OK]+[0 or 1]+[OK].0 for close report, 1 for open report. Close report by default

Directive 28: Set timing communication zones

In installer program state,

Press[28]+[OK]+[zones 1-8]+[OK]

For instance, you want to set 1, 2, 3, 4 zones to send a timing report to the main unit. In installer program state,

Press[28]+[OK] +[#]+[OK] to close timing communication.

No timing communication by default

Directive 30: Set zone attribute

In installer program state,

Press[30]+[OK]+[xxxxxxxx]+[OK], x is zone attribute of each zone. 8x is for 8 zones

X value scale ,you can see attributor table below

Note:

    1.Zone attribute depends on detector types.

    2.Fire alarm, Gas alarm, Emergency alarm and Medical alarm are treated as 24 hours per day. It is out of control by Arm/Disarm.

    3.Vacant zone or unused zone can be bypass.

    4.The zone attribute number should be 8 digits

    5.If zones are set to doorbell zone in attribute, it is only for door alert, no alarm and can¡t dial stored phone numbers.

All zones attribute are set to be Intrusion Alarm by default.

Attribute table

Code	Zone Attribute
0	Bypass
1	Fire Alarm
2	Gas Alarm
3	Emergency Alarm
4	Medical Alarm
5	Intrusion Alarm
6	Perimeter
7	Door-bell

Directive 31: Set wired zone respond speed

In installer program state,

Press[31]+[OK]+[xxxxxxxx]+[OK]. X is zone speed for 1 to 8 zones.X value table below

Code	Wired zone respond speed
1	50ms
2 (default)	100ms
3	250ms
4	500ms
5	750ms

100m for all wired zones by default

Directive 32: Set wired zone type

In installer program state,

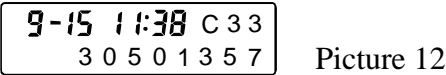Press[32]+[OK]+[xxxxxxxx]+[OK], X is wired zoned type for zone 1 to 8.X value see table below

Code Name	Wired zone type
1	Normal Open
2	Noemal Close
3	End of line Resistance

Note: If you select zone type of end of line resistance, for N/O (Normal Open) device, you have to connect with a parallel-connection 2.2k resistance. For N/C (Normal Close), you have to concatenate with a 2.2k resistance in series..

(end of line resistance type is recommended for all zones.)

N/C type for all zones by default

Directive 33: Set Alarm delay/Arm delay for appointed zones.

In installer program state,

Press[33]+[OK]+[Alarm delay time][Arm delay time][appointed zones 1-8]+[OK]

Alarm delay time range: 00-99 seconds (2 digits)

Arm delay time range: 00-99 seconds (2 digits)

Zone number range : 1.2.3¡¡8

For instance, if you desire to set zone 1.3.5.7 for alarm delay and arm delay, alarm delay time is 30 seconds; arm delay time is 50 seconds

In installer program state, Press [33]+[OK]+[30][50][1 3 5 7]+[OK]. The screen will show as below:

```
9-15 11:38 C33
  3 0 5 0 1 3 5 7
```
Picture 12

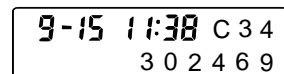No alarm delay time and arm delay time by default

Directive 34: Set inner siren alarm duration for appointed zones

In installer program state, press [34]+[yy] [xx...xxx]+[OK], x means zone number which ranges from 1 to 8, and 9 (telephone line malfunction). The number of ¡x¡ should be 9 st mot, yy=903-99), which is siren alarm output duration (minute).

For instance, If you desire to set zone 2.4.6 and phone line malfunction, built-in siren duration is 30 minutes when it alarms, In installer program state,

Press[34]+[OK]+[30][2 4 6 9]+[OK]

The screen will show as below.

```
9-15 11:38 C34
      302469
```
Picture 13

Inner siren duration 20 minutes for all zones by default

No built-in siren for phone line broken by default

Note: The emergency alarm duration of remote controller and anti-tamper alarm duration of detector are unlimited by the time.

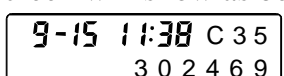**Directive 35: Set linkage alarm output duration for appointed zones.**

In installer program state, press[35]+[OK]+[linkage alarm duration][appointed zones.]+[OK]

Linkage alarm duration range: 00-99 minutes (2 digits)

Zone number range: 1.2.3¡¡9 (9 is for phone line malfunction)

For instance, If you desire to set zone 2.4.6 and phone line malfunction when it alarms, Linkage alarm siren duration is 30 minutes. In installer program state, press[35]+[OK]+[30][2 4 6 8 9]+[OK]

The screen will show as below.

```
9-15 11:38 C35
      302469
```
Picture 14

Linkage alarm duration 20 minutes for all zones by default,

No linkage alarm for phone line malfunction by default

Note: The emergency alarm duration of remote controller and anti-tamper alarm duration of detector are unlimited by the time.

Directive 36: Set the first timer of Arm/Disarm

In installer program or in master program state ,

Press[36]+[OK]+[Arm time][Disarm time][partition No.]+[OK]

Arm time is 4 digits, 2 digits for hour, 2 digits for minute

Disarm time is 4 digits, 2 digits for hour, 2 digits for minute

Partition number is 1.2¡¡9. (9 is for all partitions)

For instance, if you desire to arm at 08:00pm, and disarm at 18:00pm for all partitions automatically. In installer program state for all partitions,

Press[36]+[OK]+[0800][1800][9]+[OK].

The screen will show as below.

```
9-15 11:38 C36
      080018009
```
Picture 15

Press[36]+[OK]+[#]+[OK]to delete the first timer.

Directive 37: Set the second timer for Arm/Disarm

In installer or master program state ,

Press[37]+[OK]+[Arm time][Disarm time][partition No.]+[OK]

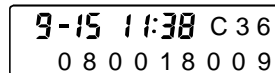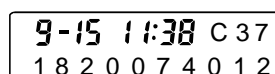Arm time is 4 digits, 2 digits for hour, 2 digits for minute

Disarm time is 4 digits, 2 digits for hour, 2 digits for minute

Partition number is 1.2¡¡9. (9 is for all partitions)

For instance, if you desire to arm at 18:20pm, and disarm at 07:40 am next morning for partition 1, 2 automatically. In installer program state for all partitions,

Press[37]+[OK]+[1820][0740][1 2]+[OK].

The screen will show as below.

```
9-15 11:38 C37
      1820074012
```
Picture 16

Press[37]+[OK]+[#]+[OK]to delete the second timer.

No timer for Arm/Disarm by default

Directive 38: Correct Date and Time

In installer or master program state,

Press[38]+[OK]+[month][date][hour][minutes]+[OK]

Two digits are for month, date, hour and minutes each.

Directive 41-48: Partition Register

In installer program state,

Press[41]+[OK]+[appointed zone No.]+[OK]for the 1st partition

Press[42]+[OK]+[appointed zone No.]+[OK]for the 2nd partition

Press[43]+[OK]+[appointed zone No.]+[OK]for the 3rd partition

Press[44]+[OK]+[appointed zone No.]+[OK]for the4th partition

Press[45]+[OK]+[appointed zone No.]+[OK]for the 5th partition

Press[46]+[OK]+[appointed zone No.]+[OK]for the 6th partition

Press[47]+[OK]+[appointed zone No.]+[OK]for the 7th partition

Press[48]+[OK]+[appointed zone No.]+[OK]for the 8th partition

Zone number is 1, 2, 3,¡¡8

Note: 1.Each zone can be repeatedly registered in different partitions.

2.Delete partitions

Press[41]+[OK]+[#]+[OK]to delete the 1st partition

Press[42]+[OK]+[#]+[OK]to delete the 2nd partition

Press[43]+[OK]+[#]+[OK]to delete the 3rd partition

Press[44]+[OK]+[#]+[OK]to delete the 4th partition

Press[45]+[OK]+[#]+[OK]to delete the 5th partition

Press[46]+[OK]+[#]+[OK]to delete the 6th partition

Press[47]+[OK]+[#]+[OK]to delete the 7th partition
Press[48]+[OK]+[#]+[OK]to delete the 8th partition
For instance, you appointed zone 1, 3, 5, 7 to register in the first partition. In installer
or master program state ,
Press[41]+[OK]+[1, 3, 5, 7]+[OK]for the 1st partition
The screen display will show as below.

```
9-15 11:38 C 4 1
          1 3 5 7
```
Picture 17

3.1-8 user's codes and 1-8 remote controllers are defined to be 1-8 users, and different
users can operate corresponding zone independently

Directive 50: Record your message
In installer program state,
Press[50]+[OK]to enter the record menu, and press[0]+[OK]to start record message
for 10 seconds. Close microphone to record and press [OK] to finish. Press[1]+[OK]
to display record message. In record menu, press[0]+[OK]to record repeatedly.

Directive 60: Register/delete remote controller
In installer program state,
Press[60]+[OK]to enter register remote controller menu, and enter code number
1 to 8 for corresponding remote controller and [OK] key to confirm.
In remote controller registering menu.
Press[1]+[OK]to register the 1st remote controller
Press[2]+[OK]to register the 2nd remote controller
Up to 8 remote controllers
If the code is vacant, the screen will show as picture18 , if the code has been
registered, It will show as Picture19
Register a remote controller in vacant code, press Arm key on remote controller,
¡Bi-Bi-¡ indicate register successfully. If the code have been registered, there is a
¡Di¡¡ indicative alert ,in that menu, Press[#]+[OK]to delete the original register
firstly, then register it the same as vacant code.
Press[1]+[OK]+[#]+[OK]to delete the 1st remote controller
Press[2]+[OK]+[#]+[OK]to delete the 2nd remote controller
Up to 8 remote controllers
In installer program state,
Press[69]+[OK]+[#]+[OK]to delete all registered remote controllers.

```
9-15 11:38 C 6 0
   ——————
```
Picture 18

```
9-15 11:38 C 6 0
    A C 9 0 A B
```
Picture 19

Note: 1: when learning remote controller, main unit will recognize automatically to
        see if this code has been learned, if this remote controller has been learned,
        Then the main unit will refuse to learn this code, and it will make a ¡Di...¡ Sound.
     2: After learning, you should test to see if this code has been learned successfully.

3: 1-8 remote controller and 1-8 user¡s code are defined to be 1-8 users, and they
        can separately operate in 1-8 sub zones.
Directive 71-78: Register/delete sensors
In installer program state,
Press[71]+[OK]to enter the1st zone register.
Press[1]+[OK]to register the 1st sensor
Press[2]+[OK]to register the 2nd sensor
Press[3]+[OK]to register the 3rd sensor
Press[72]+[OK]to enter the 2nd zone register.
Press[1]+[OK]to register the 1st sensor
Press[2]+[OK]to register the 2nd sensor
Press[3]+[OK]to register the 3rd sensor
¡¡   Up to 8 zone registers
For instance, register the third sensor in the second zone.
In installer program state,
Press[72]+[OK]to enter the second zone sensor register. Press[3]+[OK]to enter
the third code.
Picture20 for vacant code, Picture21 for registered code.

```
9-15 11:38 C 7 2
   — — — — — —
```
Picture 20

```
9-15 11:38 C 7 2
    1 3 5 7 B C
```
Picture 21

Register a sensor in vacant code, trigger sensor to send a signal to alarm console,
Bi-Bi-means register successfully.
If the code has been registered, you have to delete it before registering new sensor.
Press[#]+[OK]to delete previous registered, then register it the same as vacant code.
In installer program state,
Press[79]+[OK]+[#]+[OK]to delete all registered sensors.
Press[71]+[OK]+ to enter the 1st zone register.
Press[1]+[OK]+[#]+[OK]to delete the 1st sensor
Press[2]+[OK]+[#]+[OK]to register the 2nd sensor
Press[3]+[OK]+[#]+[OK]to delete the3rd sensor
Press[72]+[OK]to enter the 2nd zone register.
Press[1]+[OK]+[#]+[OK]to delete the 1st sensor
Press[2]+[OK]+[#]+[OK]to delete the 2nd sensor
Press[3]+[OK]+[#]+[OK]to delete the 3rd sensor ¡¡
Directive 80: Come Back To Default State.
In installer program state,
Press[80]+[OK]+[#]+[OK], the alarm console will come back to default state.
5.3 Program Table
 Note: Both installer code and master code can be programmed for those marked
 ¡*¡ in remark column. Others have to be programmed by installer code

installer code.

Program Directive	Definition	Default	Users memo	Remark
00	Modify installer code	000000		
01	Set/delete 1st user code	No		*
02	Set/delete 2nd user code	No		*
03	Set/delete 3rd user code	No		*
04	Set/delete 4th user code	No		*
05	Set/delete 5th user code	No		*
06	Set/delete 6th user code	No		*
07	Set/delete 7th user code	No		*
08	Set/delete 8th ser code	No		*
09	Modify master code	1234		*
10	Set/delete 1st stored phone number	No		
11	Set/delete 2nd stored phone number	No		
12	Set/delete 3rd stored phone number	No		
13	Set/delete 4th stored phone number	No		
14	Set/delete 5th stored phone number	No		
15	Set/delete 1st stored phone number for appointed zones	12345678		
16	Set/delete 2nd stored phone number for appointed zones	12345678		
17	Set/delete 3rd stored phone number for appointed zones	12345678		
18	Set/delete 4th stored phone number for appointed zones	12345678		
19	Set/delete 5th stored phone number for appointed zones	12345678		
20	Set dialing type	0 (tone)		
21	Set telephone communication protocol	00000		
22	Set dialing times	5		
23	Set ring times	8		
24	Set ADEMCO account	No		
25	Set KS 6+2 account	No		
26	Set wireless siren	No		
27	Open/close phone line cut report	0(close)		
28	Set timing communication zones	No		
30	Set zone attribute	55555555		
31	Set wired zone response speed	22222222		
32	Set wiring type	11111111		
33	Set alarm delay/Arm delay for appointed zones	No		
34	Set inner siren duration for appointed zone	2012345678		
35	Set linkage alarm output for appointed zones	2012345678		
36	Set 1st timer for Arm/Disarm	No		*
37	Set 2nd timer for Arm/Disarm	No		*
38	Correct Date and Time			*

Program Directive	Definition	Default	Users memo	Remark
41	Set/delete 1st partition for appointed zones	12345678		
42	Set/delete 2nd partition for appointed zones	12345678		
43	Set/delete 3rd partition for appointed zones	12345678		
44	Set/delete 4th partition for appointed zones	12345678		
45	Set/delete 5th partition for appointed zones	12345678		
46	Set/delete 6th partition for appointed zones	12345678		
47	Set/delete 7th partition for appointed zones	12345678		
48	Set/delete 8th partition for appointed zones	12345678		
50	Record message	No		
60	Register/delete remote controller	No		
69	Delete all register remote controllers			
71	Register/delete sensor in 1st zone	No		
72	Register/delete sensor in 2nd zone	No		
73	Register/delete sensor in 3rd zone	No		
74	Register/delete sensor in 4th zone	No		
75	Register/delete sensor in 5th one	No		
76	Register/delete sensor in 6th one	No		
77	Register/delete sensor in 7th zone	No		
78	Register/delete sensor in 8th zone	No		
79	Delete all registered sensor			
80	Come back to default			

6.Users Operation Guide
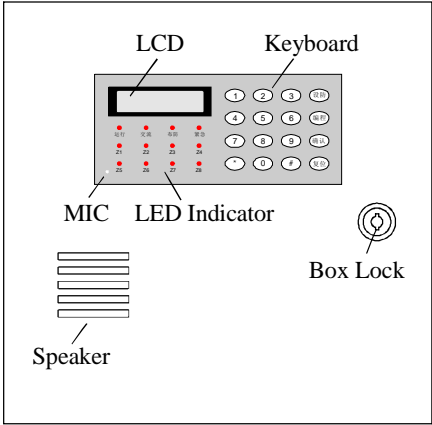
6.1 Panel Instruction

1). LED indicator

1 to 8 zone indicators are for wireless zones. All zone indicators are off in normal state. The zone indicator is on when it detects alarm signals. The zone indicator will be flashing once every 4-second when it is in arm state..

PWR (Power) indicator (red), Power indicator is red when AC supplier is normal. Power indicator is off when AC supplier cut-off.

RUN indicator (red), the indicator is on for a second when it is powered on. And be flashing once every 4 seconds.

Arm indicator (red), the indicator is on for a second when panel accept arm order. Otherwise, it is off when panel receive disarm order.

Emergency indicator (red), It is on when an emergency alarm occurs by pressing Emergency key on remote controller. It is off when the system is disarmed.
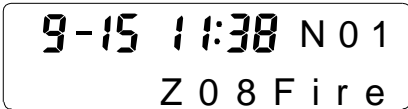

Panel of alarm host diagram

2). LCD display

Two lines for LCD display, up-line is for time and 3 characters, down-line is for 11 characters display. After powered on ,it inspectsautomatically, and the LCD display is for initialization (see picture 22)
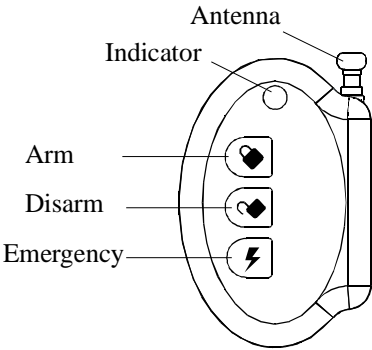

Picture 22

Read alarm information on screen when system occurs alarm. For instance, a fire alarm in the 8th zone (see picture 23below).

Picture 23

Alarm time ¡ September 15th , 11:38¡
¡N01¡ is the first alarm record.
¡Z08¡ is the 8th zone
Fire means fire alarm.
The screen can be scrolled for more alarm records,
(scrolling once every 5 seconds)

3). Remote controller

⬙ is Arm key
⬙ is Disarm key
⚡ is Emergency key, on-site alarm will be activated and dial all stored phones by pressing emergency alarm.

KS-12A Remote Controller

4). Display content definition.

Display content	Definition		Display content	Definition
Arm	Arm		Disarm	Disarm
TEL Error	Telephone line failure		TEL Back	Telephone line come back to normal
AC Loss	AC power cut-off		AC Back	AC power come back to normal
MBAT Low	Main unit battery power low		MBAT Back	Main unit battery come back to normal
Zx Low (x=1¡ 8)	Sensor in x zone power low		Zx L Back (x=1-8)	X zone sensor power come back to normal
Zx Fire (x=1¡ 8)	Fire alarm in x zone		Zx Gas (x=1¡ 8)	Gas leakage in x zone
Zx EMC (x=1¡ 8)	Emergency alarm in x zone		Zx Medical (x=1¡ 8)	Medical alarm in x zone
Zx Theft (x=1¡ 8)	Intrusion alarm in x zone		Zx Peri (x=1¡ 8)	Perimeter alarm in x zone
Zx Tamper (x=1¡ 8)	Tamper alarm in x zone		Zx Com err (x=1¡ 8)	Communication failure in x zone
Zx Open (x=1-8)	X zone open infrared sensor		Zx Close (x=1-8)	X close the infrared sensor
Zx EMC (x=1¡ 8)	Emergency alarm in x user		Ux Duress (x=1¡ 8)	Duress alarm in x user
Host Tamper	Main unit tamper alarm			

5). Sound indicator

Indicator	Definition
A short ¡ Bi-¡	Valid indicator for keyboard indicator
Two short ¡ Bi-Bi-¡	Program operation correctly or arm indicator
Four short ¡ Bi-Bi-Bi-Bi-¡	Power on inspect--self or disarm indicator
A long ¡ Di----¡	The wrong program indicator
A short ¡ Di-¡ every second	Phone line failure indicator
A short ¡ Bi-¡ every two seconds	Delay arm alert indicator
A short ¡ Di-¡ every two seconds	Delay alarm alert indicator
A long ¡ Bi----¡ every 1 minute	Main unit battery low indicator

6.2 Code
  1)The installer code: It is used to set alarm console. Default code is ¡000000¡.
  2)Master code: It is used to Arm/Disarm/ modify user code/ correct date and
    Arm/Disarm timer. Default code is ¡1234¡.
  3)User code: system can be programmed up to 8 user codes (no user code by
    default). With user code to Arm/Disarm corresponding partition.
  4)Duress code.
    It is composed of last digit of user code plus 1, (for example, the user code is
    ¡1234¡. The duress code is ¡1235¡). If the last digit of user code is 9, the last
    digit of duress code shall be 0 (for example, the user code is 1239. the duress
    code is 1230). The user code is used when users are in duress. The users can
    cancel alarm and disarm system by duress code, but the system also send out
    the alarm information through telephone to ask for help at the same time.
6.3 Arm/Disarm
  1). The remote controller programmed to arm/disarm for different partitions.
      Press ⊙ key to Arm, Press ⊙ key to disarm.
  2) Arm/disarm for different partitions on panel keyboard.
    Quick Arm, the partition is in disarm state, press partition number and SET key.
    For example, you want to quickly arm partition 8 (partition 8 is in disarm state),
    just press 8 and ¡SET¡ key on panel keyboard. ,Then the partition 8 is armed.
Note: you can arm all partitions by pressing ¡8¡,if the pa rtition you choose is in arm
state, the indicate ¡enter the code¡
Routine Operations: In standby time, press ¡set¡key,it will indicate that ¡please
enter code¡,then press [4 digits user code]+[OK].If the code you entered is the same
as the preset user code, it will enter disarm state, oppositely, it will enter arm state. If
the code is wrong, it will indicate that ¡The code is wrong ,please re-enter the code¡.
If the code you entered is wrong for three times continuously, it will alarm on spot
and lock the keypad for 1 minute.
Note: Different user code only can operate the corresponding zones. If you operate
by entering master code, press [4 digits master code]+[partition No] to arm/disarm
the different partitions. If the partition No is ¡9¡ or you don¡t enter any No, that
means you arm/disarm all partitions.
  3). Arm/Disarm through timer.
  4). Arm/Disarm through remote telephone with user code or master code.
Note: the user code Arm/Disarm is only for corresponding partition. Master coder is
for all partitions
Note: During Arm operation, the sound ¡Bi- Bi-¡means Arm, the Arm
indicator light will be on and the corresponding zone will enter arm state. For
the delay Arm zones, the panel won¡t enter arm state until delay time expired.
During the delay time ,there is a sound ¡Bi-¡ very two seconds to alert users to
leave before delay time arrive.
6.4 Alarm operation
  1). Intrusion alarm
    The zone attribute in ¡Intrude Alarm or Perimeter alarm¡, They won¡t activate
    until alarm console in Arm state. So don¡t forget to ARM the alarm system

    before you leave the place.
  2) Emergency Alarm
    Press ⚡ key for emergency help in urgent situation, the alarm activate by
    emergency key will dial all stored phone numbers and start on-site siren.
  3) Duress alarm
    When you are in dress by robber, press the duress code. The alarm system will
    be disarmed, but send duress information through phone dialer.
Note: If your system setup is in delay alarm state, the duress alarm will delay.
During the time ,the console will be Di- Di- every two seconds. You can Disarm
system.
6.5 When you receive alarm
  1)ADEMCO alarm center processing automatically
  2)Users processing
    When alarm console dials the phone number you set . It plays the recorded
    message your stored. And give you 5 seconds after displaying message.
    During 5 seconds, you are able to press 5#.4#.2# or 0# on your phone or mobile
    phone.
    Press 5# to display message you stored repeatedly.
    Press 4# to listen to 30 seconds sound from alarm console location. During the
    time, any operation is ineffective. You are able to enter other commands
     (see appendix 4) after 30 seconds. If there are not any operations in 30 seconds,
    the system will dial next phone number your set .
    Press 2# to deactivate alarm and disarm the alarm console. It will not dial other
    phone numbers you stored any more.
    Press 0# to exit this call, and dial next phone number your stored. But system will
    dial this number later in turn.
    If you receive call from alarm console and no do any operations. It will display
    message 5 times repeatedly and dial next phone number.
    Message format: ¡Ding-Dong, please attention!![Message you record], zone
    number and alarm attribute¡.
6.6 Remote setup
    You are able to dial phone numbers that alarm console located through your
    phone or mobile phone. When the ring times you set arrives, the alarm console
    will indicate that ¡Please enter code ¡, then you have to ent er user code and # on
    your phone keyboard. (If no operation beyond 5 seconds, there is another
    indicator ¡Please enter code¡. It will repeat three times and then hang up.)
    One sound indicator ¡Du-¡ means the code is correct. Then you are able to enter
    directive you wanted. If no operation beyond 30 seconds, the phone will be hung
    up. If incorrect code was entered three times continuously, the phone will be
    hung up. You also be able to press 4# to listen to 30 seconds sound from alarm

Appendix 4

Directive	Definition		Command	Definition
1#	Arm		2#	Disarm
3#	Start up on-site siren		4#	Listen to on-site sound
6#	Start up linkage device		7#	Shut down linkage device
8#	Shut down on-site siren		0#	exit

6.7 Record Inquiry

1)In standby time, press[1]+[OK]to read the latest
Arm record, LCD display will show as below. The
time is the latest arm time. ¡U02¡tell you that it is
armed by the second user.

2)In standby time, press[2]+[OK]to read the latest
Disarm record, LCD display will show as below.
The time is the latest disarm time. ¡U02¡tell you
that it is disarmed by the second user.

3)In standby time, press[3]+[OK]to quickly read alarm record up to 20 pieces, and
press[*]or[#]for up or down pager

7.1 Alarm Console

Size:26.4cm X 26cm X 8cm (LXWXH) Excluding length of antenna
Weight:3KG (Excluding backup battery)
Power Supply:AC220V¡15%, Battey:12V/7Ah
Auxiliary Output Power: <550mA
Siren Output Current: < 1.5A
Total Output Current: ≤1.5A (the current of outer current should not over it)
Wireless Working Frequency:433MHz
Wireless Communication Distance:
The distance between PIR detector and alarm host (in open area ≥400m)

≥200m)

(≥)

0℃−55℃ 40−70%

7.2

≤5uA

≤10mw

433MHz

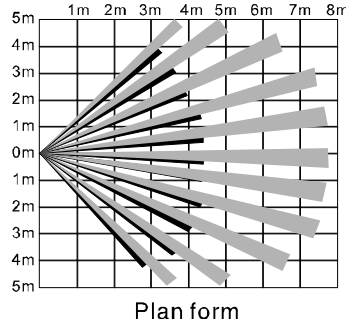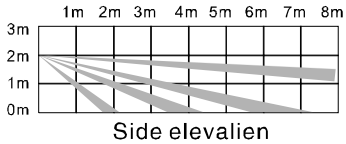|	3. wrongly connect both negative terminal and signal terminal for the zone that is not sensor connected.	For the zones where have not sensor connected are asked to connect signal terminal correctly or bypass them.
Communication failure while alarming or dialing	Telephone communication protocol is not programmed.	Program the telecommunication protocol rightly
The telephone can not dial while alarming	The telephone line and out line are connected oppositely.	Correct the telephone hole and line hole .

Wireless Infrared Sensor

User¡s Manual

Wireless Passive Infrared Sensor adopts advanced digit signal processing. It is with automatic temperature compensation technology, Lower power alert and timing communication report. It detects human infrared heat energy to emit wireless digit signals to activate alarm host. It is advantage of low false alarm rate , stable and easy installation.

1. Main Functions And Features

1.Adopt dual infrared sensor, high sensitivity.
2.Single-chip intelligent digit processing
3.Double-channel intelligent signal processing
4.Low power consumption design, static current≤50¦A, anti-pet, anti-electromagnetism interference and low false alarm rate .
5.Three levels of sensitivity.
6.Automatic temperature compensation
7.Adapter DC9V-12V is available. Automatically switch between inner power and external power.
8.With power lower alert and send signal to alarm host to report.
9.Timing communication report and ON/OFF report.

.27.

2. Technical Parameter

1.Detective distance ≤8m
2.Detective angle: 90¡
3.Working Voltage: DC6V (4pcs No.7 dry batteries), and external power (adapter):DC9V～12V.
4.Working Current:
   Power supplied by battery, Standard current≤50μA, Alarm currenct≤15mA
   Power supplied by the adapter, Standard current≤5mA, Alarm currenct≤15mA
5.Blocked time when it is power on: 100seconds
6.Emission time: 3 seconds
7.Emission Frequency: 433.92 MHz
8.Emission power≤70mW
9.Physical size: 110mm X 60mm X 45mm
10.Working temperature: -25℃～+65℃

Side elevalien

Plan form

3. Component Description

3.1 Working Mode:
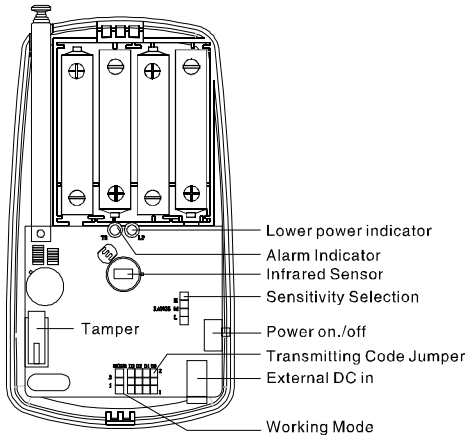There are three Modes of Switch¡Testing Mode, Standard Mode, Power Saving mode.

A.Test Mode:
After it sends a signal, the sensor won¡t send a new signal until 5 seconds. It is recommended to debug. This mode run more power.

B.Standard Mode:
After it sends a signal, the sensor won¡t send a new signal until 60 seconds. It is recommended to work daily.

C.Power Saving Mode:
After it sends a signal, the sensor won¡t send a new signal until 240 seconds. It is used in marketing place where have more people in and out.

Lower power indicator
Alarm Indicator
Infrared Sensor
Sensitivity Selection
Tamper
Power on./off
Transmitting Code Jumper
External DC in
Working Mode

Note: The mode shall be changed in power off state (including batteries power).

3.2 Tamper: When DOS is opened or destroyed illegally, infrared detector will send signals to alarm host and activate alarming. Tamper alarm can be activated in 24 hours a day. Even the sensor is in power off state.

.28.

3.3 Power on/off: Adjust switch to ¡ON¡ position, the detector will start to work, adjust switch to¡OFF¡ position, the detector will stop working and report to the host at the same time.

3.4 External DC Input: DC9V~12V is available (polarity **), External power supplied and inner power supplied can be changed automatically.
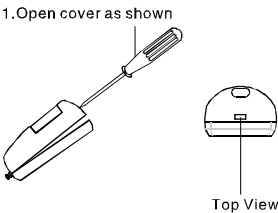
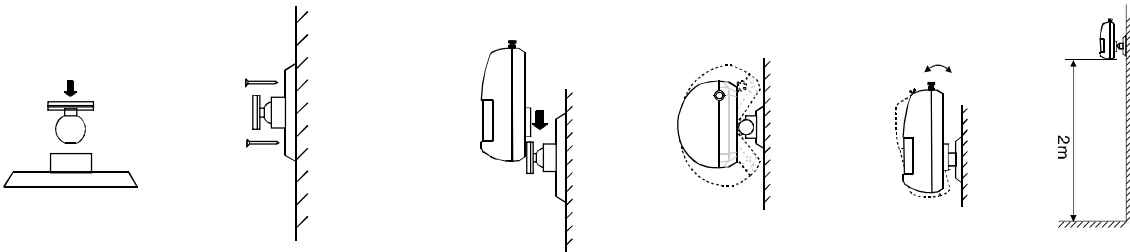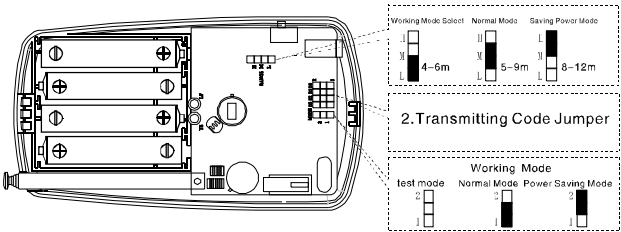## 4. Installation Requirements And Diagram

4.1. Installation Requirements

4.1.1 The infrared detector has the highest sensitivity when a human body moves parallel with the mirror surface and the sensitivity is the lowest when a human body moves vertically against the mirror surface. So the angle and height against the horizontal surface should be noted during installation, which will greatly effect the range of the defense area. The height shall be 2 meters or so and the angle against the wall should be parallel..

4.1.2 Stand off sunshine and other break-out light sources (e.g. car light)

4.1.3 Stand off the warm or cold sources, e.g., warm air or cold air outlet, air conditioning outlet, electric radiators, air cooling machines and etc. stand off the windows.

4.1.4 There are no barriers within the defended area of a detector.

4.1.5 If infrared detector works in temperature which is near to human temperature, the detective effect is inefficient. So in this instance, Infrared detector is suggested to be installed in lower temperature in that area.

4.1.6 In interference instance, infrared detector is suggested to be adjusted to lower sensitivity position.

4.1.7 Infrared detector is asked to be stable on the wall.
   Open the top cover of detector, select the sensitivity level and working mode according to security requirements.

4.2 Install 4pcs No.7 batteries according to battery case remark..then adjust ON/OFF switch to ¡ON¡ position, and fix it on the wall.

1.Open cover as picture shows
Top View

2. Transmitting Code Jumper Working Mode Select
   Normal Mode Sensitivity 8m   6m

1.Open cover as shown

Top View

3.Press universal ball into universal bearer. To void damaged, please energize on average.

4.Fix universal bracket with nail on 2m over horizontal.

5.Fix infrared detector in universal bracket.

6.top view, adjusting detector area right and left,

7.side view, adjusting up and down installation finished detector

4.3. Indicator

Alarm Indicator: When alarm happens, alarm indicator will be flashing Lower
Power Indicator: When power is low, lower power indicator will be on

4.4. Simulating Demo

After powered on for 100 seconds, human body motions by 0.75m/S by 8-10m in distance. Its alarm indicator is on and it activates alarming, which means the installation is right and success.
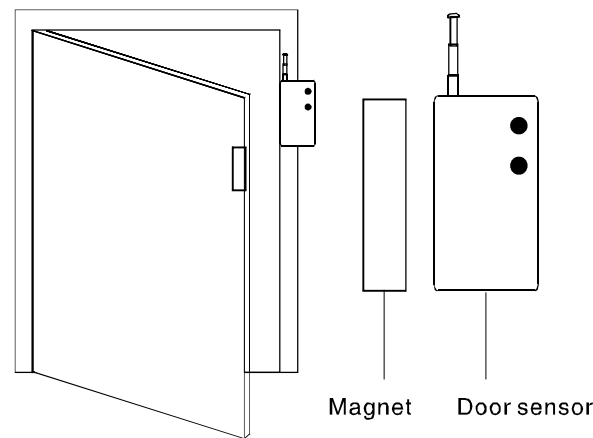
5.Note

5.1.1 To make sure its sensitivity, infrared sensor is not allowed to be touched by hand. And it should be keep clear. If the surface is dirty, powering it off and clean it with a cotton ball dipped in 75% alcohol.

5.1.2 Test infrared detector periodically

5.1.3 This infrared detector can prevent theft , but it don¡t promise there are no any risks at all. For security, users are asked to use this products correctly and improve daily alert

Wireless Door Sensor
User¡s Manual

1. Instruction

Wireless door sensor matches with a magnet. It sends alarm signals to alarm console when both parts separated. The door sensor is designed in micro power consumption with low power alert. The wireless transmitter adopts SAWF. It is much stable. The transmitting distance in open area can reach to 250m or more.

Magnet   Door sensor

2. Installment

Remove the paper on double-faced glue on both door sensor and magnet. Glue sensor and magnet in proper place you want .Make sure the antenna of door sensor is upright(up or down).

3. Note

4. Component Diagram

Warnning: Limits of this safe system

As an advanced technical guard system, although it can reduce the occurrence of theft. robbery and fire, it can not promise to have no any above-mentiond accidents happens or have no any personnel casualty or property losses happens. And we invite you understanding that any alarm system ,whether it is used in business or at home, it may alarm wrongly or failure to alarm because of various reasons. Karrssn remind you to pay attention to the following possible reasons:

1.The system is not armed because of carelessness.

2.User or installation personnel misunderstand the user¡s manual or operate wrongly so that the system can not work normally.

3.Intruder intrude the place where is beyond the detect areas or he can pass by the alarm detector or make it malfunction. Passive infrared detector only can not detect hidden places, like behind the wall. inside ceiling. inside floor. behind the door. glass partition. glass door or behind the glazing .

4.The detect sensitivity of passive infrared detector will automatically change according to the changed environment temperature .when the temperature of protected area reach to $32°C$-$40°C$,the performance of infrared detector (detect distance) will reduce. So we suggest you to check its working performance carefully when it reaches to such a temperature, and then adjusting it.

5.There are no power or the battery is used out or damaged.

6.The alarm trumpet is installed at the other side of the door closed,so it may not be able to warn or wake the sleeper.

7.There are something wrong with telephone line which transfer alarm signals to the alarm center ,or the lines are busy so that it can not transfer signals in time.

8.When there are someone intrude ,the common reason why the system can¡t alarm is that the system don¡t get abnormal maintenance . Like other electrical equipments , the electronic elements of this equipment also may be damaged. Therefore, user should check the system periodically everyday.

9.Other unpredicted reasons.

If you don¡t agree with the above clauses, within three days from you purchase, you can send it back if only it is not damaged, and we will refund all money. Otherwise, we view it as that you agree with the above clauses.

You should know that the alarm equiptment is not insurance substitution .So the users must be carefull to protect your life and property.